# U.S. Trade With Foreign Affiliates of U.S. Firms

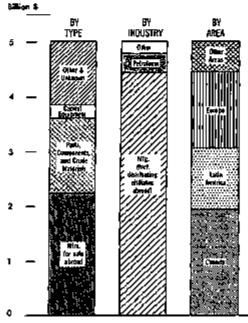
This report gives the first results of a new annual survey designed to show the amount and pattern of those exports from the United States which reach foreign markets through foreign affiliates of U.S. firms. Information of this type is needed to fill one of the large gaps in our knowledge of the overall effects on U.S. trade and payments of the very rapid expansion of U.S. industry into producing and distribution facilities abroad. Up to now, the principal data regularly collected have shown the capital flows, payments of income and fees, total sales abroad, and shipments by the foreign affiliates to the United States.1 Additional data are also collected on the total capital expenditures and financing of the affiliates. It has not been possible, however, to relate this information to U.S. export trade, which can be significantly affected in several ways: foreign affiliates use U.S. goods and parts or components in manufacturing; they act directly or indirectly to promote the sale of U.S. goods; they use U.S. capital equipment; they also produce goods abroad which compete with or substitute for U.S.-produced goods; and they alter indirectly the capacity of foreign countries to make dollar expenditures of all kinds, with the possible effect of raising both our exports and imports and leading to enlarged international trade without changing the balance.

It should be stressed at once that the information now becoming available can help to describe the size and nature of these effects, but too much should not be expected at this early stage in the exploration of this complex subject. Reports are being received from a large cross section of U.S. industrial companies with foreign affiliates, but, as the note on methods at the end of this

report points out, there are many difficulties in estimating universe totals in detail. For many relationships a series of observations over time is necessary for any useful conclusions, but only very incomplete data are now available for a few prior years. To study the effects of competition or substitutions of foreign-produced goods for U.S. goods a much broader and more detailed analytical framework would have to be developed, involving demand and supply conditions in specific markets for specific products. Although the data that follow illuminate a part of this subject, and the continuing survey will provide the necessary time series, it is clear that any kind of definitive analysis

## Exports to Foreign Affiliates of U.S. Firms, 1963

Finished manufactures for resale by foreign affiliates are the largest category of exports



Note.—See mainedology for data derivation.

I For the most recent data see the Survet of Currynt Business for August 1964 and October 1964. \* U.S. Business Invescments in Foreign Countries, published by the Office of Business Bernetmics in 1960.

of the overall effects of foreign investment on our balance of payments will depend on the results of a comprehensive survey of direct foreign investments, going beyond the 1957 survey.<sup>2</sup>

## Principal findings

- 1. On the basis of reports from a sample group of U.S. industrial companies, foreign affiliates of all such firms imported at least \$5 billion of U.S. goods in 1963. Since all U.S. purchases by the foreign affiliates could not be identified by the parent companies who reported, this does not represent their total imports from the U.S. The \$5 billion represented about 23 percent of all U.S. exports in 1963.
- 2. U.S. manufacturing firms accounted for \$4.4 billion of these exports to foreign affiliates; this included \$3.2 billion to their manufacturing installations and \$1.2 billion to affiliates that are primarily distributors of the parent company's products. The \$4.4 billion of exports to the affiliates of manufacturing firms can be compared with total exports of selected manufactured and semimanufactured goods from the United States of \$13.3 billion. order to provide a product range roughly comparable with that of the foreign affiliates, the latter figure excludes certain products not produced in significant quantities abroad by U.S. companies, such as scrap metals, aircraft, and military items, but includes some semimanufactures not usually included in a manufacturing category.
- 3. Of exports to the manufacturing affiliates abroad, about 40 percent were materials, components or other manufactures for processing and assembly, and about 34 percent were manufactures resold by these affiliates with minimum further processing. The re-

mainder was reainly capital equipment, items purchased here directly by the foreign affiliates, and other items not identified by type.

4. Exports (except capital goods) to the manufacturing affiliates abroad appear to be the equivalent of more than 9 percent of the total sales of the affiliates, which amounted to over \$31 billion in 1963. This ratio varied greatly among the product groups and areas of the world; for some product lines, such as processed food or paper and pulp, the use of U.S.-source goods was minimal, while for nonelectrical machinery the ratio of exports to sales was 16 percent. Among the areas, Canadian plants used a relatively high proportion of U.S. imports in their production activities, while for European affiliates the overall ratio was under 5 percent.

## Estimated Experis to Persign Attitudes, 1913

5. It appears that the growth in exports to foreign manufacturing affiliates has roughly kept pace with the growth in other manufacturing exports from the U.S. since 1959, but that these overall growth rates are lower than the rate of increase of sales by the foreign plants. However, there are significant divergences from this pattern for individual areas and product lines.

6. The direct reflection in the balance of payments accounts of the activities of the foreign manufacturing affiliates is a sizable surplus. On the receipts side in 1963 are exports of \$3.2 billion and remittances of income and royalties amounting to \$1 billion; on the payments side are imports into the U.S. from the affiliates of \$1.1 billion and net capital outflows of \$0.7 billion. This direct measure cannot represent the full effect of increased investment abroad, however, because it does not

take account of many indirect results. A full measure would include, for instance, an evaluation of the effect on the competitive position of U.S. based industry resulting from the extension of U.S. industry abroad, as compared with the loss of foreign markets that might result from increased competition by foreign firms not affiliated with U.S. parent companies.

## Exports to Foreign Affiliates

Detailed tabulations of data reported for 1962 and 1963 are given in the first two tables, with adjustments to improve year-to-year comparability, but without attempting to expand the detailed results to universe estimates. Such universe estimates for summary data are given in tables 3-7.

The breakdown by type of exports in table 1 shows that for 1963 about 25 percent of the total was for further manufacture abroad, and that these were mainly parts or components rather than crude materials. The largest single category, accounting for 44 percent was exports of manufactures for sale without further processing. Manufacturing affiliates abroad serve to an important extent as distribution points for U.S. products of the parent companies; in addition nearly all of the distributing affiliates covered in the surveys are owned by U.S. manufacturing companies, and they are also important in marketing U.S. manufactures abroad. Petroleum companies distribute sizable quantities of such U.S. manufactures as tires and acces-

Table 1.—Reported <sup>1</sup> Exports to the Foreign Affiliates of U.S. Firms, 1962 and 1963, by Industry and Area

[Millions of dollars)

By industry of foreign affiliate	All areas, total		Camada		Latin America		Burope		Other areas	
by artisay a triage annual	1982	M963	1962	1063	1962	1962	1982	1963	1962	1963
Tutal Zipatted imperia	2, 697	2.760	847	972	614	434	642	752	363	29
Total repetted experts  Charged on parent company books:	ľ	Ι΄	I i	Ι΄.		· -	1		l -·	ı
For processing or assembly	.1 688	726	294	548	182	176	152	181	77	8 7
PRING CONTROLOGICS OF COURT MANUFACTURES	1 1671	725	283	340	144	161	išī	164	61   14	ľï
Orudo materials or supplies For resals without forther manufacture	1, 100	1 W/T	805	8 434	15	15 231	606	488	134	15
Capital aminment	216	149	29	25	72	53	52	85	<b>'</b>	2
Capital equipment. Other exports oberged to persus.	121	îlė	i ĩũ	10	243 72 75	84	8	š	ŀ <b>≆</b> i	Ιĩ
Other errorts:					I				·	
Exports purchased directly by foreign stillists	286	316	207	287	34	.345	.19	25 57	95 94	1
Exports sold by affiliate on commission basis.  Manufacturing, total.	198	184 1.887	723	18 844	58 296	197 257	102 362	397	166	16
Charged on parent company books:	15-033	E, DOV	'	-	290	J 401	342	4384	1 1888	
For proceeding of assembly	603	763	277	222	124 :	146	124	184	<b>6</b> 4	7. 6
For processing or assembly Parts, components, or other manufactures	603 543	646	269	332 325	128 : 126	131	103	18	I €3	Ė
Crude materials or supplies. For resals without further manufacture.		. 57	g	251	18	14	21 159	26 174	19	1
For recals without further manufacture	1855	555	233	251	18 19 18 7	66 7	159	174	ĕ	7
Capital equipment		62 15	23	23 10	Ιij	[	37	17	17	Ι '
Other exports charged to parent	1 40	10	ı °	10	l '	1 1	3		l '	l
Exports purchased directly by loreign affiliate	215	266	180	210	15	18	15	23		Ι.
Exports sold by efficiete on commission besis	93	106	7	l "iš	1 12	l eĕ	24	23		
Distribution, tetal		ett	184	112	] IO	174	358	286	81 81	4
Charged on parent company books:	1	l	l	i	l _	Ι.	I	l	1 -	Ι.
For processing or assembly.  Parts, components, or other manufactures	# #	44	提	[6	5	8 ? 140	23 24 (*) 266	18 16	3	;
Critic insterior or supplies	1 ™	4	1 ~	_ 1.	l ii	1	100	13		
For resale without further manufacture.		472	84	78	ııs	146	286	225	28	2
Cankal soninment	98	22	(*)	(6)			Ιī	72	28 10	1 7
Other emoris charged to parent.	7	(*)	1 6		<del>(</del> ۳	(%			(*)	
Other exports:	l		ا ا	ــ ا			Ι.	۱		۱
Experts purchased directly by foreign affiliate Experts sold by affiliate on commission basis	34	22 51	18	.18	.3		_≩	(2)	10	(r)
Petroleum, intal	292	210	18	(°)	18 15	21 129	50 26	80	107	
Charged on parent company books:		,			•	14.5	Į 16	eu	- AM	) ~
For processing or assembly	LB	20 20	(*)	8	В	6	6	9	1 4	1 8
For processing or assembly.  Party, components, or other manuscrures	ĹŠ	20	8	(%)	Б	- 6	5	Ŕ	Į į	
Crude meterials or surplime	1	: 55-			*****	*****				
For resolo without further manufacture	132	144	6	*	34 24 31	32	62	_ #	핡	6
Capital equipment. Other exports charged to perent.	48 88	84	ഗി	اثرىا	🞢	21 45	Ř	š	1 3	1 1
Other exports:	. ~			'''	[ ** ]	' '	1 1	· •		•
Exports purchased directly by foreign affiliate	20	22	(2)	9	11	1 25 187	(3)	2	9	10
Exports sold by affiliate no commission basis	193	25				25	(=)	Ţ		,
Other fodustries, total	192	147	4.	4	37	107	50	39	a	
Clorged on parent company books:	۱	18	ı	/8%	15 i	1-	Ι,	A		760
For processing or assembly Parts, compagents, or other manufactures	I # .	肾		1-4	16	17 17	1 1	81	•	133
Crude moterials or supplies		35	"" 2	8					4	165
Crude materials or supplies For recale without further manufacture	27	35	2 ]	3	2	34 49	22	29		1 1
Capital equipment	校	**	8	Į,,I	29 86	34	1	(2)	20	(*)
Other experts charged to perent	43	er	(7)	(*)	94	e0	*****		•	1
Other exports: Exports purchased directly by fureign affiliate	17	16	ı	ا ، ا	16	14	(P)	(m)	(=)	Ι,
Exports sold by affiliate an commission basis.	54	∟"i(	<b>.</b>		(")	( )	98	രൂ	(*)	l

Amounts are given as reported by sample group without blow-up; includes only data for affiliates covered in both years.
 Almost entirely distributing affiliates of U.S. manufacturing firms.
 Less than \$500,000.

Nore.-Detail may not edd to totals because of rounding.

sories through their foreign affiliates.

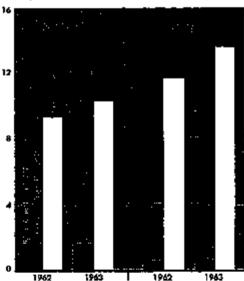
Exports of capital equipment, i.e., equipment charged to capital account by the foreign affiliates, appear relatively small in these surveys (see also table 5) but coverage of these exports is probably relatively deficient because reporting parent companies do not have a record of purchases by their subsidiaries or construction firms building plants under contract abroad.

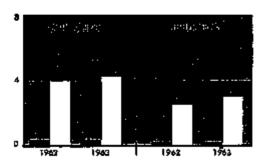
Nearly all of the exports mentioned above were exported directly by the parent company to the affiliate, or were purchased by the parent for account of the foreign affiliate. In addition, fairly substantial amounts of goods purchased directly in the United States by affiliates were reported, but about two-thirds of

## Manufacturing Affiliates Abread

Imports from U.S. compared with total sales of affiliates







Note. - See methodology for data desivation.

this was reported for Canadian affiliates. It is not known yet whether such direct purchases in the United States by affiliates in other countries are in fact quite small, or whether the records of the parent companies do not reflect them.

A final, relatively small category of exports is goods sent to the affiliates for sale on a commission basis, mainly manufactures of the parent companies.

## Largest exports to Canada

Affiliates in Canada account for far more imports from the United States than affiliates in any other country or area shown in table 2. Most of the Canadian imports are for manufacturing, especially by automotive plants, which were expanding their imports considerably from 1962 to 1963 as production rose.

Exports to affiliates in Latin America are quite sizable, and include a large part of the exports to petroleum affiliates (especially in Venezuela) and to affiliates in agriculture and mining. Also, Panama is the site for distributing affiliates of many manufacturing companies, though the exports may actually be sold in distant areas. The principal increase from 1962 to 1963 in manufacturing exports to Latin America was reported for Mexico; for Argentina there was a marked decline. Exports to Brazil did not change materially and were relatively minor in view of the large U.S. manufacturing investment there.

Though shipments to European affiliates account for nearly 30 percent of the reported exports, they are relatively small when related to the scale of operation of U.S. companies in Europe. Much of the European total is accounted for by Swiss distributing affiliates with worldwide markets; exports to these firms dropped considerably in 1968 as some parent companies shifted production to foreign manufacturing plants. Exports to the United Kingdom were next largest in Europe.

In the rest of the world, the affiliates in developed countries—Australia, Japan, and the Republic of South Africa—accounted for most of the imports from U.S. parent companies.

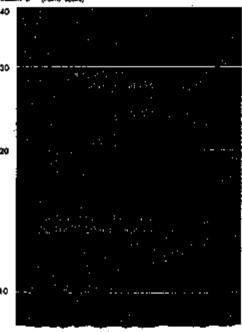
#### Exports and foreign production

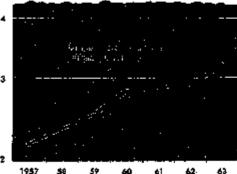
In order to study the relationship between exports and the growth in sales of foreign affiliates it is necessary to expand the reported export data to totals consistent with the estimated total sales of foreign affiliates. These expanded export figures are given in tables 3 and 4. Similar procedures could not be followed for other industries since no link to foreign sales was

## Manufacturing Affiliates Abroad

- Sales of foreign affiliates have risen faster than exports of principal manufactures from the U.S.
- U.S. exports to foreign affiliates of U.S. manufacturing firms have kept page with U.S. exports of manufactures since 1959

Billion \$ (ratio scale)





- \*\* Explodes items not produced abroad by M.S. companies in
- \* ##Estimates based on comple reports and represent primarily parent company sales. Includes sales through foreign milliodes that are primarily distributes of graduate of U.S. parents.

Nele.—See methodology for data desivation.

Table 2.—Reported <sup>1</sup> Exports to Affiliates in Selected Countries, 1962 and 1963 [Million of dollars]

	[M	Allone c	dollars	<u> </u>							
	Total p	essorted	Exports to device affiliates by or through percent company							Other U.S.	
Area and Country	exports to additates		For processing or essembly		For resale without further manufacture		Capital		d expor		
	1962	1983	1982	1983	1982	1968	1942	1963	1962	1963	
All arene, (clai.	2,657	2,769	489	784	1, 136	1,207	216	109	600	412	
Canada	847	672	254	34	305	334	<b>53</b>	25	225	241	
Letin Aportisan Republica, (ata) Argentina Brazil Ciula Codombia Merico Panana Peru Vanagnela Other Latin American Republica	45 47 27 212 118 34	514 41. 89 26 26 27 143 120 33	161 39 17 14 9 57 1 2 16	173 20 17 16 8 72 1 26 26 2	234 23 10 5 81 106 22 88 7	246 4 11 3 5 34 106 13 24	1100000100°	6428631327	39 31 21 21 21 21 21 21 21 21 21 21 21 21 21	μη 11 12 12 14 14 15 14 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	
Other Western Handsphere	40	79	1		,	24	11		#8	41	
Europe, tetal.  Common Market, total.  Belgium und Lunembeurg.  France. Germany Italy Notherlands. Other Europe, total. Sweden. Switzerland. United Kingdom Other countries.	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	782 225 60 75 49 49 456 24 267 180 20	1637 722 115 200 244 5 81 7 7 61 6	187 90 18 29 30 8 101 5 137 5	868 129 31 34 39 14 21 380 17 268 77	485 161 36 43 89 14 31 335 16 218 89	255 3 6 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	35 26 4 8 10 2 2 9 1	129 129 22 23 16 90 3 67 17 3	90 38 4 2 16 60 2 2 27 19	
Africa, tetal. Republic of South Africa. Other African countries.	116 21 84	71 40 81	#P	22 1	#8 11 7	29 18 8	(e) 31	1 1	48 2 46	24 5 16	
Aele, total Indip. Japan Philippine Republic. Other Asian countries	17 47 27	124 17 47 26 84	23 4 5 10	26 3 5 7 5	83 12 36 14 21	79 13 34 15 17	15 1 6 2	(*) 8 1 7	(5) (5)	(m)	
Oceania, total Australia Other countries	97 85 4	162 96 7	25 34 1	38 38 (7)	38 28 3	55 45 7	19 19 (9	, š	(*)	<u>.</u> ق	

Amounts are given as reported by sample group without blow-up; lackness only data for affiliates covered in both years.
 Less than 2000,000.

Norte.-Detail may not add to totals because of rounding.

available. In any case, the relationship would not be as significant for extractive or service industries.

The breakdown by industry of foreign manufacturing affiliates given in table 3 shows that most exports were to those producing transportation equipment, chemicals, and nonelectrical machinery. Exports to affiliates in all of these industries showed gains in 1963. Most of the gain in exports was to Canadian manufacturing affiliates; increases re ported for other areas were relatively minor. Exports to distributing affiliates abroad are large in Europe and Latin America, primarily because of the use of subsidiaries in Switzerland and Panama for this purpose. Some declines were reported for both areas in 1963.

When related to total sales of the manufacturing affiliates, as in table 4, exports appear to have risen from 1962 to 1963 at roughly the same rate as sales, and to have averaged a little over 9 percent of the value of sales. Since

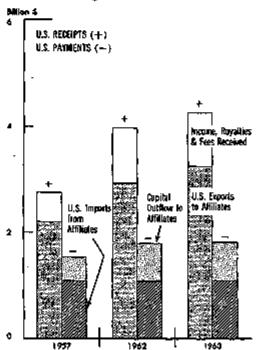
exports are generally reported FOB the U.S. port, some upward adjustment would be appropriate in order to take account of transport costs to the foreign plant and of foreign tariffs, internal taxes and the like. However such an adjustment would not change the export-sales ratio significantly.

Within the average ratio, there are important differences among the various product lines and areas. Three important types of products—processed foods, paper and pulp, and primary and fabricated metals—require very little U.S.-source goods in the manufacturing process, so that exports to these affiliates average under 5 percent of sales. At the other end of the scale, a relatively large proportion of U.S. goods is used by affiliates producing automotive equipment and nonelectrical machinery.

In almost every product line, however, the ratio of U.S.-source goods to sales of the foreign plants is much higher for Canadian operations than for those in other areas, and it tends to be lower in Europe than elsewhere. This stands out most clearly for automotive products, where the ratio of experts to sales was 27 percent for Canada in 1963 (though it was declining) but was under 3 percent for Europe, which accounts for half the foreign production by U.S. firms in this industry.

With comparable data on these ratios available only for the years 1962-63, experience is not sufficient to determine whether any systematic changes in the overall relationship of exports to sales are taking place. It seems clear that under present conditions the expansion of foreign production by U.S.-owned plants in some areas, particularly Europe, involves a lesser expansion of exports of U.S. products for use or resale by the foreign affiliates than rising production elsewhere in such plants. But the data so far developed do not show whether the ratios of exports to sales are changing in specific areas and industries. The future relationship of

## Direct Transactions of Foreign Manufacturing Affiliates With the U.S.



White —Data on exports from U.S. and sales to U.S. are estimated from a sample of large measulationing companies. Direct insessations de not measure the net effect on the balance in payments because infined effects of foreign production may be algorificant.

[See methodology for data deceadom.]

Table 3.—Estimated Total Exports<sup>1</sup> to Foreign Affiliates of U.S. Manufacturing Firms, 1962 and 1963, by Industry and Type

DM Mikes of deligned

Dermon of resease											
Industry and type	All acust, total		Cm			Latin America		Earope		Other areas	
	1942	1963	11605	1963	1962	1943	1962	1982	1062	1983	
Experts to fereign manufactorium affiliates, total  By industry of foreign affiliates: Food products  Paper and allied products. Chemicals. Rubber products. Primary and fabricated pastals Machinery (energy electrical) Electrical machinery Transportation equipment Other products.  By type of exports: For processing or assembly. Parts, compounts or other manufactories.	550 120 185 611 264 852 255	118 44 596 144 197 571 800 943 894 1, 262 1, 180	888 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.69 1.69 1.69 1.69 1.69 1.69 1.69 1.69	報報 中の報告では、 1000年の第2、 1000年の第2 1	20 金元500000000000000000000000000000000000	60 60 60 60 60 60 60 60 60 60 60 60 60 6	10 10 10 10 10 10 10 10 10 10 10 10 10 1	92 61 52 PO 14 81 81 81	289 5 26 18 6 88 147 68	
Oranie materials or ampplies  For resale without further manufacture  Capital excipentes  Other exports charged to parent  Exports purchased directly by foreign amiljore  Exports sold by amilians on commission basis	158 1,067 20 429 177 1,232	1,036 1,036 102 339 339 338 1,221 77 628 42 10 118	500 350 24 350 24 25 25 25 25 25 25 25 25 25 25 25 25 25	3e33a & charke	HEG-F. S HOSEEN	REASON TO A TENOR	200	13861788 共 #\$P()28	123 22 23 25 E SH E () 13	128 128 128 129 114 188 19 (*) 22	

I. Represents blow-up of sample returns (see methodological note), (but does not include an allowance for unreported indirect purchases in the U.S. by foreign affiliates).

2. Almost entirely distributing affiliates of U.S. menufacturing from.

2. Allzon 1500,000. 'Less than \$500,000.

Nort.-Detail may not add to totale because of founding.

Table 4.—Exports to Foreign Manufacturing Affiliates Compared With Their Total Sales, 1962 and 1963

(Militons of dollars; ratios in percent)

i	All are	as, tetal	CM	ıada	Ladn	America	Ba	Entrope		Other sreas	
	1962	1963	1942	1963	1963	1963	1002	1963	1902	1963	
Marrafactaring, total :	·		ļ		!				!	_	
Experte to a Miliates	1.680	1.99	1.57%	1.611	294	376	670	601	236	263	
Sales of a tilleries 1,	27,714	2.980 91,917	8.376	10,247	2,399	人2等	11, 724	13.610	236 2,560	3,600 2,600 2,7	
Rei/o	8.3	0.5	74.7	15.5	0.0	8.8	1.0	4.8	2.5	1 777	
Pood products:	_					]	-	-			
Exports to affiliate:	128		65	<b>1</b> 28	23	80	25 1,185	1 20	6	. 4	
Bales of affiliates	8,385	3,007	1,155	6,342	820	940	1,155	1, 265	265	25 1.4	
Resid Paper and allied products: Exports to affiliates.	2.0	1.2	6.2	<b>1</b> 2 5	2.8	5, 5	3.0	1.0	2.8	1. 4	
Paper and allied products:											
Experts to affiliates	. 23	42	23	20	8		ტ	(*) 95	i 2	1 1	
Soles of attitiones	1,160	1, 260	920	960	100	120	80	16	60	78	
Ratio	L	8.3	2.5	4.0	8.0	2.5			8.5	78 47	
Chemicals:					]		i			t .	
Exports to efficiency	647	481	191	244	92	94	115	112	. 8	32	
Sales of affiliates	4, 245	4,832	1, 250	1,352	100	1,000	1,760	2,000	205	160	
Relio	19.4	10.0	14.5	28.0	11.0	8.4	6.5	8.5	72.0	7.8	
Rubber products:	i l	J .	l .		l :	· ·		ı	l		
Expert to affilistes	135	127	18	37	27	94	52	48	17	16	
Sales of affiliates	1, \$67	1,415	260	386	302	310	480	430	245	200	
Rario	4.4	80	6.0	R.C	8.0	7.7	11.3	11.8	8.0	200 8. d	
Primary and fabricated metals:						_				l	
Records to additioner.	28	108	62	62	6	7	24	. 84	6	150	
Bades of affiliates	2,033	2,323	1,065	1, 148	168	184	716	640	10	150	
Ratto	4.8	4.6	5.8	8.4	3.7	8.6	8.6	40	6.7	5.5	
Machinery, excluding electrical:		'							l		
Reports to efficiency Sales of efficiency	- 400	įδα	220	272	35	20	133	169	78	82 220 85. 0	
Bales of affiliates	8,010	<b>1,3</b> 11	700	881	114	120	133 1,850	t, 900	365	220	
Retio	16.6	16.6	29.	\$1.0	80.7	<b>£</b> 1.7	7.1	8.0	66. 4	25.0	
Electrical machinery:										[	
Baperts to affiliates	247	288	160	105	38	20	42	62	7	12 1 <b>0</b>	
Sales of affiliates	2,850	3, 720	1, 115	1, 500	375	300	1,290	1,670	140	18	
Retie.	8.7	8.0	14.8	14.0	10.1	6.7	3.5	41	4.0	8.0	
Transportation equipment:					1						
Exports to affiliates	<b>21,1</b>	876	617	573	150	143	80	98	55	42	
SMES OF BUILDING COMMANDE COMMAND	6, 6835	7,900	1,730	2,090	785 .	750	3, 280	4, 100	. 55 870	1,029	
Patie	12.2	22.0	89.0	27.4	167.1	18.9	2.7	2.6	8.3	6.1	
Other products:	1	i									
Exports to affiliates	227	256	102	171	_15		84	118	25 230	45	
Bake of affiliates.,	2, 990	4,840	1,000	1, 120	500	54D	1, 25	1,339	230	270	
Ratio	7.6	10.8	0.0	15.3	6.0	T.1	7.0	8.6	10.0	10.7	

These exports are blown-up to universe totals for all foreign manufacturing affiliates but exclude exports of capital
equipment for use by foreign affuliates and exports to be sold by the foreign affuliates on a commission backs. For 1922 lotal
exports to affiliates (table 3) were \$2,221 million, including \$102 million of capital equipment and \$219 million of commission.

Nove.—Detail may not add to totals because of rounding,

exports to sales will be affected by both of these considerations.

## Relationship to total U.S. exports

Exports to foreign manufacturing affiliates in 1963 accounted for nearly one-fourth of total exports of comparable manufactured and semimanufactured goods from the United States (table 6), a slightly higher proportion than in 1962. Exports to distributing affiliates abroad accounted for an additional 9 percent of such exports from the United States. About 57 percent of U.S. exports of these types of goods to Canada in 1963 went to manufacturing affiliates there, compared to about 22 percent for Latin America, 18 percent for Europe, and only 7 percent for the rest of the world.

When the results for 1982 are compared with 1963, it appears that exports to the manufacturing affiliates in Canada were rising somewhat faster than total U.S. exports of manufactures to that country. Exports to affiliates in Latin America rose slightly while total exports to that area were falling. For Europe, exports to the affiliates rose about 7 percent, a bit more slowly than total comparable exports. There was no increase in exports to affiliates in "other" areas though total exports to such areas rose considerably.

A further set of statistics developed by the surveys shows total exports made by the parent companies to the countries in which they have manufacturing and distributing affiliates. These exports totaled \$4.9 billion in 1963, as shown in table 6, about 37 percent of all exports of the type produced by the industries represented. It should be noted that this is far short of the total exports of this group of companies, since it excludes their exports to countries where they do not have such affiliates, and also excludes exports of their products not made directly by the companies themselves. Moreover, it is less than total U.S. exports to the foreign affiliates, which would also include goods purchased from nonaffiliated U.S. companies, capital equipment, and commission sales for nonaffiliated firms.

About three-quarters of the \$4.9 billion of parent company exports went through their foreign manufacturing or

Represents estimated total sales of fereign manufacturing additates including local sales and exports, ass than \$500.000.

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Table 5. Exports of Capital Equipment to Manufacturing Affiliates Compared to Their Plant and Equipment Expendi-tures, 1962 and 1963

[Millions of dollars]

	capital equi		egraip	at and pinent endi-		
·	1982	1943	1962	1963		
All areas, intel	156	163	1,9 <b>t</b> 1	2 151		
Canada	41	27	458	885		
Letin America	45	21	283	806		
Common Market Other Europe	48 25 13	27 21 8	983 848 406	1, 034 534 509		
Other aread	26	16	249	279		

NOTE. - Detail may not said to totals because of remoding.

distributing affiliates. About 85 percent of their exports to Canada moved in this way, and about three quarters of their exports to Latin America and Europe. These results clearly show that for those countries where affiliates have been established a very large part of the export trade of the parent company enters through the affiliate. As the preceding section indicated, some of these exports by the parents enter into the production process of their manufacturing affiliates, though this relationship varies widely among areas and industries; also a large portion is sold without further processing by manufacturing and distributing affiliates. The differential influences of these export market patterns remain to be studied.

As noted above, time-period analysis is limited by the lack of comparable data on exports to affiliates for years before 1962. Using partial data collected earlier, it appears that exports to manufacturing affiliates abroad were about \$2.2 billion in 1957, rose to about \$2.5 billion in 1959, and \$2.8 billion in 1960. For 1962 and 1963 the comparable figures are \$2.9 billion and \$3.2 billion.

As the chart shows, the rise from 1957 to 1959 was relatively large, and came at a period when overall U.S. exports were falling. Output of the foreign manufacturing affiliates was rising at about the same rate as the parent companies' exports to them in that period. From 1959 through 1963 the exports to affiliates rose about 30 percent, about the same rate as the rise in all U.S. exports of manufactures, while sales of the U.S.-owned foreign manufacturing plants rose about 50

percent. In this period, therefore, the proportion of U.S.-source goods to sales of the foreign affiliates declined somewhat.

## Direct effects on balance of payments

Using the estimates for exports to foreign affiliates derived from this new survey, together with data previously developed from other surveys, it is possible to show (table 7) that receipts in the balance of payments from foreign manufacturing affiliates exceeded payments in 1963 by \$2.4 billion. About \$1 billion of the net receipts was associated with Canadian affiliates, \$0.7 billion with European affiliates, and \$0.4 billion with those in Latin America.

The overall receipts balance for these affilates was about \$1.2 billion in 1957, the first year for which the necessary estimates are available. Gains of \$1 billion in exports and \$0.5 billion in income receipts since 1957 far exceeded the \$0.3 billion increase in net capital outflows, and there was practically no change in imports into the United States from the affiliates, which remained at about \$1 billion annually.

As noted at the beginning of this article, however, these statistics leave out of account a great many aspects of the spread of U.S.-operated plants abroad which are relevant to an evaluation of their net effect in the U.S. balance of payments. For instance, little is known about the specific commodities affected, the extent to which their continued exportation would soon be made impossible by competition or trade barriers abroad, or the extent to

Table 7.-U.S. Trade and Other Transactions With Foreign Manufacturing Affili-ates of U.S. Companies, 1963, by Area

Diffillions of dellarsi

ДÏ AII. äъ-<u>Latin</u> Eo. U.S. receipts from foreign manufactur-ing artificies, total... Merchandise 4,227 1,963 424 1,200 415 Dividenda, in-8, 241 1.894 **510** 72 259 terest and branch profits.... Royalties and hers 640 844 306 83 71 ## 296 176 U-S. payments to foreign memplester ing millinten, total... Merebandisa im-1,800 100 223 473 180 L, DO2 75 810 116 88

Primarily represents experts of pureat companies; experts purchased directly by foreign affliate, and capital equipment purchased in the United States, are understated by an unknown uncont.

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Net explical out-

Nove.-Detail may not add to totals because of rounding.

which their exportation has been supplanted by production in U.S.-owned plants located abroad. Even more complex is the question of the effect on our balance of payments of additional incomes generated abroad by these enterprises, and the manner in which dollar exchange saved by foreign countries through local production of needed manufactures may, at least in part, lead indirectly to alternative expenditures here.

Some of these questions may be clarified as additional information is collected and analyzed. The data now available show principally the very significant dimensions of the foreign investment operations of U.S. firms, and indicate some of the movements in these operations.

Table 6.—Exports to Foreign Manufacturing and Distributing Affiliates, Compared With Total of Exports of Selected Manufactures From the U.S., 1962 and 1963, by Area [Millions of dollars]

	All ere	es, total	Cast	ada	Tells A	merica	ries Europe		Other arees	
<u> </u>	1962	1963	L962	1943	1963	1963	1982	1967	1943	1943
Exports of selected manufactures from U.S., Exports to foreign manufacturing similarities of U.S. firms. Exports to fersion distributing affiliates of U.S. firms. Total exports of U.S. parent companies to countries where they have manufacturing or distributing	10, 670 2, 913 1, 239	13, 266 8, 221 1, 231	2,790 1,480 284	2, 671 1, <del>691</del> 249	2, 545 806 310	2, 377 510 854	610 681 681	4, 628 729 511	8,548 294 79	2, 890 289 116
affliates  Amount reported in line 4 charged on parents books of sold on compliant to basis and included in lines 2 and 8 shows?	4, 680 3, 242	4,673	1, 455	1, 686	1,002	860	1,696	1,570 2,160	187 252	749

1. See mathodology for derivation of export totals.
2. This includes all shipmouts consigned to residents of the (oreign countries in which U.S. parent companies have affiliates: exports of parent companies to other countries, or sold through intermediaries are not included.
3. For 1963 the amount in line 5 is 881 million less than the total of line 2 and 3. This represents primarily direct purchases by affiliates (\$630 million in totals 3), that part of exports charged on the parent company books but shipped by others, and a part of the commission sales. Separate amounts are not available for these items.

NOTE.-Detail may not add to totals because of rounding.

#### Methodology

The annual survey on U.S. Exports to Feesign Affiliates at U.S. Firms (Form BE-114) is designed to provide data on the movement of U.S. exports to or theologic foreign affiliates of U.S. firms. The first such survey severed the year 1903; this report includes the results of that survey as well as the data to 1968 obtained in the ammer of 1964. The number of U.S. parent companies reporting in 1963 was 298, covering about 2,500 foreign affiliates.

No benchmark data saint for exports to localen affiliates, and therefore the attempt to blow up some of the data to universe totals is based on a tie to statistics on select of foodin affiliates collected from a similar group of reporters providing data anomally on Form BR-181, Sources and Uses of Funds of U.S. Direct investments Abroad (see Souver or Chemper Bitusticas for October 1864, page 50). The data for exports to measurate trung and distribution affiliates, have been expended to universe estimates by relating exports to the sales of the same foreign affiliates, and then relating these sales to previously calculated total sales of affiliates in each area and industry. For expital equipment, a relationship to plent and equipment expendibilities was used. The following table indicates the attent of the resulting blaw-up of reported amounts:

1953 Exports to Foreign Additions [Millions of dollars]

	<b>АВ ТЕР</b>	erted	Broanded total				
	Manu- tecturing	Trada	Manu- facturing	Trada			
All areas, social	1,795 892 801 431 171	667 221 202 297 67	8, 221 1, 694 ALO 728	1, 221 240 364 511 116			

As the relatively large volume of expects of reporting comnames indicates, the sample of reporters was selected to include enterprises having a large volume of expects and shable foreign operations. The selected group of firms covered mainly manufacturing companies theying foreign manufacturing and distribution silliates. It does not cover companies whom basic activity in the United States as well as abroad is that of a trading of expert company.

The companies covered in the mining and personaum indistrict include most major companies having international investments and no attempt has been marks to expand their exports to universe totals. However, it is believed that this omission is not significant. No extempt was made to cover firms in the service industries.

#### Definitions:

The term "affiliate or affiliated company" used in this article refers to foreign brunches, or to foreign companies in which U.S. parent firms own at least 25 percent of the voting stock. Most of these foreign americans are whilly-owned or majority-owned foreign substitution of U.S. firms.

"Experts of selected manufactures" used in Table 6 counists of total U.S. experts of manufactured or semi-manufactured goods, but such des commonlies are common in the settivities of U.S. compenses abroad, such as entimalities and dills, bldes and leather, grains and preparations, civilian sirerals, acrap metals, and coed and rolated facts, among others. However, such products or materials as primary metals, synthetic and crude rubber, polip and waste paper, tobacco manufactures, dairy products and eggs, meat and preparations, furit, thats ead vagatables, and unimat feed, etc. are included because the fureign affiliates produce similar classes of goods. The total of selected experts of manufactures in 1923 was \$12,296 million, which can be compared with million.

Data collected in this survey provided information on the type of exports by reporters. These types included exports for protesting or attendity, either in the form of parts and components, or as orade and unmanufactured materials or supplies; exports for resals without further manufactors; capital equipment and machinery, and exports made to too affiliate on a commission back, among others. Information supplied by reporters did not include a breakdown of the suports to foreign affiliates by commedities.

#### Notes to charts

Exports used in the chart on page 20, Estimated Exports to Foreign Affillates, include the blews-up totals for manufacturing and distribution, including partial information on expurts by other (than parent) U.S. firms to these foreign affiliates. For other industries (pairoleous, uning, etc.), the amounts used are reported totals for 1963 without any blow-up.

Experts, used for the chart on page 22, Imperis From U.S. as Share of Total Sales, include the blown-up total for immunisatoring companies, broken down by eress, but exclude the expert of capital equipment for use by the feedin affiliates and United States experts sold by the feetin affiliates commission basis.

Exports in the second chart on page 22 include all exports to insumbeturing affiliates abroad un a blown-up basis. These exports inverbeen carried back to 1977 on the basis of more limited information for 1988 and 1900 collected by OBE in 1962 (Paris BR-600, Special Survey of Fareign Substitutions) and for 1987 obtained in the OBE Survey of American Bariness investments in Foreign Countries. Exports for 1967, 1969 and 1960, were matched with sales for the same foreign affiliates for those years, and reited to universe totals besed on the ratio of matched sales to total makes of all foreign manufacturing affiliates.

Expects in the chart on page 28, Direct Transactions of Foreign Manufacturing Affiliates with the U.S., cover expects to oreign manufacturing affiliates only. Data on U.S. imports from foreign affiliates are taken from the October, 1966 Survey or Current Buspaces, table 7, page 12, and cover the same manufacturing indensities and commodities as the statistics on U.S. expects covered by this article.

## Expansion in Plant and Equipment Expenditures—Continued from page 7

had been in a declining phase from 1957 to early 1963, have shown a substantial pickup this year. Both groups are projecting sharp increases in the first half of next year.

#### Airlines step up purchases

Rising plant and equipment expenditures of the nonrail transportation group are reflecting mainly increased purchases by the airlines for medium-and short-range jet craft. From mid-1962 to mid-1964 expenditures of the airlines had declined as the long-range jet acquisition programs matured. With the improvement in their financial position as a consequence of the completion of major equipment payments and increased jet travel, airlines are now turning to an interim program of

equipment buying, prior to the acquisition of supersonic craft.

#### Railroad expenditures rise sharply

Capital expenditures by the railroads this year will probably exceed \$1%-billion—up one-third from 1963, for the third successive year of substantial expansion. Expenditures in the early part of next year are expected to reach a rate of about \$1% billion.

Investment by railroads has characteristically fluctuated very widely. Peak outlays, in the neighborhood of \$1% billion, were made in 1949, 1951, and 1957; on the other hand, spending has fallen as low as \$% billion-\$% billion in 1954, 1958, and 1981. Since the spending trough in the fourth quarter of 1961, road and equipment

expenditures have increased by 150 percent—more than in any other expansion in the postwar period.

The extended recovery has approximately coincided with a marked improvement in railroad net operating income, which had dropped to its lowest point in more than 40 years in the first quarter of 1961. The carriers have been placing special emphasis on the modernization of their freight cars. Business generated by the railroad equipment expenditures is reflected in the rise of more than two-fifths in the production of freight car equipment since early 1961. Over the same period expenditures for road have beld relatively stable and are very low by postwar standards.